

DARTMOUTH TEAM DEFEATS QUINTET BY LARGE SCORE

Dey Stars for Hanover Team
—Forrester and Hinck
For Engineers

DARTMOUTH NOT HEADED

Technology Team Spurts in
Last Part of First Half but
Fail to Win

Unable to overcome the big lead which Dartmouth chalked up early in the game, the Technology basketball team was forced to take the count by the Hanover outfit 38 to 21, Saturday evening on the Big Green court.

The Engineer's passing game was superior to that of the Hanoverians, but their shooting eye was way off and the Dartmouth men, ringing shot after shot from quarter and mid court loped along, always in the lead.

Forrester and Hinck Starred

Capt. Dey of the Dartmouth team was the high scorer of the game, counting 15 times during the game. One of these points was from free tries and the remainder were goals from the floor, the majority of which were pretty shots from the center of the floor. Dey was easily the outstanding player of the game, displaying an uncanny ability to locate the net.

Capt. Forrester was the individual star for Technology on the offensive, breaking through the Green defense many times. He was also high man for the Tech team, with 7 points to his credit. Ernie Hinck, playing right guard on the Tech outfit, was the backbone of the defense, crashing through time and time again, to break up the Dartmouth plays.

At the opening whistle, the Dartmouth team opened up their offensive power to leave the Beavers in the ruck. Just before the half closed, the Technology team started a spurt which rapidly closed the gap between the two teams but they could not get nearer than within 6 points of their opponents.

MERRILL FINISHES METEOR LECTURES

Possibility of Comet Origin of
Meteorites Discussed

Professor G. P. Merrill, curator of the National Museum at Washington, D. C., delivered the last lecture of his series of four lectures on Meteorites last Friday afternoon in room 4-370 at 4 o'clock. Like the two preceding talks, this address was essentially technical, and was intended primarily for geological students, the speaker's remarks being an elaboration of the topics of his first lecture.

The possibility of meteors coming from comets was discussed, and the speaker brought up the metallurgy and mineralogy of various falls in the past few years. He pointed out that all of the meteors have a glassy covering when discovered, and gave the various theories used to explain its presence. He stated that the iron found in meteorites was believed to be a reduction product of iron compounds, and its presence did not have particular significance.

The close of the Fall Competition for places on the staff of THE TECH marks the opening of a new competition which will end in January. During this short period there is an opportunity for new men to make positions in the various departments. There are unusual chances for alert and interested men in the Sports Department and in the several divisions of the Business Department. Men who have had experience are in great demand; unexperienced men have an excellent opportunity to get on the "inside" of the newspaper game. Those interested in writing should come to room 3, Walker; those interested in Business work, room 302.

Professor Rogers to Give Xmas Address

"Christmas and Charles Dickens" will be the subject of a lecture which will be given by Professor R. E. Rogers as a freshman lecture next Thursday. Because of the nature of the talk, however, all of the classes as well as the staff have been invited to attend.

"Readings from Charles Dickens' works will constitute a large part of the talk" declared Professor Rogers, "but the general outline has not yet been prepared." As usual the talk will be given in room 10-250 at 4 o'clock.

Engineering News Features Story On Water Supply

New York City's Water Problems Discussed in Issue
Out Tomorrow

Featuring the December issue of the Tech Engineering News is an article on "The Water Supply of the City of New York," by J. Waldo Smith '36, a graduate of Course I.

The author of this article received his degrees of Dr. Eng. and D. Sc. from Stevens and Columbia respectively in 1918 and first became nationally known when he completed the constructions for the Croton Dam, the largest masonry dam in the world. From 1905 to 1922 he was Chief Engineer for the Board of Water Supply of the City of New York and since that date, Mr. Smith has been consulting engineer. He was recently retained by the Moffat Tunnel Commission of Denver, Colorado.

An account of the consumption of sulphuric acid in industry, including a brief discussion of its history, properties and manufacture is described in an article on the Merrimac Chemical Company, manufacturers of heavy chemicals.

According to H. W. Underwood, catalysis is the modern philosopher's stone, and he explains his belief in an article on that subject written for T. E. N. There are three other stories in the issue by graduates of the Institute.

FRATERNITIES' HOP HELD ON SATURDAY

Between 40 and 50 couples were in attendance at the Interfraternity Tea Dance which was held last Saturday afternoon from 4 until 7 o'clock in the Swiss Room of the Copley-Plaza Hotel. The affair is the second of its kind which has been held between the fraternities at the Institute. The first one was held last year during Junior Week.

Music was furnished by the McDonald Orchestra of Somerville who play regularly at The Chateau.

Chemists Discuss Late Developments Made In Field Of Organic Chemistry

Paper on Faraday's Discovery
Of Benzene Is Read at the
Last Meeting

Papers on several phases of organic chemistry were presented at a meeting of the Northeastern Section of the American Chemical Society held in North Hall of Walker last Friday evening.

Preceding the meeting there was a dinner in the Faculty Dining Room at which Dr. James B. Conant of Harvard gave an informal talk about the research men whom he met during his travels in Europe last year. About 150 were present at the meeting including a party of Simmons College girls.

Dr. Conant gave an account of "Recent Developments in Organic Chemistry," discussing new developments and fundamentals of the methods and theory of organic chemistry, and spoke particularly of the work of European scientists. He described the researches which have been carried on for the last five years in Germany, by Dr. Willstätter and associates, on enzymes or small organisms associated with fermentation and other processes. According to Dr. Willstätter

NEW YORK CENTER FOR ALUMNI WORK TO BE DISCUSSED

Special Meeting Has Been
Called to Consider New
Idea as Proposed

MEETING MONDAY DEC. 21

Holding a special dinner and meeting in Walker Memorial December 21, the Alumni Council will discuss the question, "Should we have a national Technology alumni center in New York City?" The meeting will be called to order at 7:45 o'clock, the dinner beginning at 6:30.

Mr. T. C. Desmond '09, new president of the Technology Club of New York, will elaborate further on the plan which was presented at the last meeting of the Council to make New York the headquarters for a considerable part of the work of the Institute. A general discussion will be held, with all those having ideas on the plan asked to participate.

The scheme as outlined so far consists in forming around the present Technology Association clubhouse at New York as a nucleus a center of Alumni activity, with offices for the Personnel Service and an enlarged Employment Bureau of the Technology Division of Industrial Co-operation and Research, and the office of the present Alumni Secretary.

A national membership campaign to enroll thousands of Alumni in the "National Technology Club," and the construction after a few months of a new uptown home for the organization, would also be provided for, in the new plan.

MORE ORGANIC FILMS TO BE SEEN FRIDAY

Linoleum and Film Industries
Are to Be Portrayed

Through the courtesy of two manufacturers, the Organic Chemistry Division at the Institute will show two films on manufacturing processes next Friday at 3 o'clock in room 10-250.

The first of the two films will be on the manufacture of linoleum. The linoleum industry uses a great amount of linseed oil annually in the production of its product. It is made by mixing linseed oil and cork, which is obtained from bark, and subjecting the resulting mass to high temperature and pressure. In some kinds of linoleum burlap is used for a binder. This film which is loaned by The American Cork Co., shows the complete process.

The second reel to be exhibited is a movie trip through filmland and this film is loaned by the Eastman Kodak Co., and shows the moving picture film in the making. The production of nitro-cellulose, by nitrating cotton is particularly emphasized.

investigation of these forms of life should be by pure organic chemistry. He is a mechanist and believes that after such investigations we can make predictions concerning these forms of life.

Dr. Stewart B. Foster, head of the Department of Chemistry of the State Normal School at Framingham, Massachusetts, gave a talk on hide power and an account of his experiments with Professor A. W. Thomas at Columbia University. Dr. Foster and Dr. Thomas claim to have discovered a second iso-electric point for gelatine.

A paper on "Faraday's Discovery of Benzene" was presented by Dr. Lyman C. Newell of Boston University. Dr. Newell's talk was illustrated with lantern slides, among which were parts of the original manuscript of Faraday describing his discovery of hydrocarbons. "It is a most remarkable thing," declared Mr. Brian Mead of the Department of Chemistry, "that Faraday isolated benzene of a high degree of purity from previously unknown compounds and measured its chemical and physical constants to a high degree of accuracy. This work was done in about a space of one month."

OPENING SOCIETY OF ARTS LECTURE IS DELIVERED BY HEAD OF NAVAL ARCHITECTS

TUESDAY, APRIL 20
SELECTED FOR PROM

At a meeting last Friday the Junior Prom Committee decided on Tuesday, April 20, as the date for the Prom. Members of the committee chose this day as being the most suitable one during Junior Week, which will be from April 19 to 24. The Copley-Plaza has been selected for the party and the Committee has already made reservations for the above date with the Copley management.

Several bids for music and favors have been received to date, and the Committee will meet with representatives from ten novelty manufacturing concerns on Thursday to look over samples of favors.

Discussion was raised at the last meeting of the advisability of doing without the usual formal dinner at the Prom and substituting in its place a buffet luncheon, but from present indications such action will not be taken because such an arrangement will not result in any more favorable arrangement than would be given with the dinner included.

ANNOUNCE WINNERS IN CLUBS CONTEST

First Prize in Musical Clubs
Poster Contest Won by
C. H. Hunkamp '27

C. H. Hunkamp '27 has been announced as the winning artist in the Combined Musical Clubs poster competition and will receive two tickets to the Christmas, Technology-Dartmouth, and Spring concerts, as the first prize. Hunkamp is the Art Editor of Voo Doo, and transferred to the Institute from the University of Virginia.

An orchestra serves as the background of the design with a dancing girl posing in front. The poster is done in red and yellow.

Second prize in the competition was won by S. E. Homsey '26, a student in the Architectural course. He will be awarded two tickets to the Christmas and Spring concerts.

Tickets to the Christmas concert will be sold in the main lobby from 12 to 2 throughout this week, contrary to a previous announcement. Those who consented to act as matrons at the affair include Mrs. H. S. Ford, Mrs. H. P. Talbot, and Mrs. H. G. Pearson.

HOLD FUEL CONCLAVE AT ROGERS BUILDING

New England Coal Problem
And Oil Supply Discussed

Fuels now available for use in industry were discussed at the Friday afternoon session of the Fuel and Power meeting held in Rogers building and presided over by President S. W. Stratton. The meeting was held under the auspices of the Affiliated Technical Societies of Boston.

"The Sources and Utilization of Coal," was the subject of a talk by F. H. Daniels '11. It was mentioned that we have as yet used only 15% of our original anthracite supply and that 99% of the bituminous is still available. "Our oil supply," he said, "will on the contrary run out within a generation if it is used continually at the same rate as at present." He predicted that fuel oil will never again compete with coal for steam production except in rare cases. The following speaker, Mr. E. H. Peabody, spoke on the present supply and uses of fuel oil.

One speaker said that the householder wastes 25% of his anthracite. As he phrased it, "The householder takes the booby prize for the greatest waste of coal." E. C. Hultman, chairman of the state Commission on the Necessaries of Life, spoke at the Friday evening session which was a banquet held at the Chamber of Commerce Building. He asserted that complete substitution of soft for hard coal would result in a 50% saving for New Englanders. He also said the supply of hard coal would last only 150 years more, that of bituminous thousands of years.

'SUBMARINES' IS TOPIC DISCUSSED IN THREE TALKS

Lecturer Was in Charge of
Building British Subs
During War

ABOLISHMENT NOT NEAR

Abolition of the submarine as a weapon of naval warfare is not in prospect for the near future, Professor J. R. Jack, head of the Department of Naval Architecture, declared in the first of the season's popular science lectures given Friday, Saturday, and yesterday in room 10-250, under the auspices of the Society of Arts.

Professor Jack was in charge of submarine and destroyer construction at the shipbuilding works of Denny & Brother in Scotland during the World War. The title of the lecture was "Submarines—How They Are Designed, Constructed and Navigated."

Referring to the growing worldwide demand for outlawry of the submarine, Professor Jack said that the great powers were very reluctant to use this weapon in the World War, but were forced to do so in the face of Germany's under-sea campaign. He pointed out that submarine warfare was particularly distasteful to England, France and America, nations of athletes, and sportsmen, who look upon the submarine as an unfair method of attack.

Reluctantly Adopted
One of the inventors who went to France early in the war with his idea for a submarine was turned down because the French officials believed it was beneath the dignity of the nation to use a weapon that struck from the bottom, he said. Later, however, the French reluctantly adopted submarines as part of the nation's naval forces.

Although many merchant ships were destroyed, only one capital ship, a German vessel, was sunk by submarine attack and one British battleship was damaged during the war. The real value of submarines, therefore, was in attacks upon merchant ships and supply ships, and as a means of breaking down the morale of a people. In this connection, he added, it was useful to the politicians of nations.

In speaking of the recent losses of submarines in the American and British navies, Professor Jack described some of the dangers of under-sea navigation. He said the designer of a submarine is in the position of a man who is called upon to put a quart into a pint container. He spoke of the dangers of fumes from the storage battery.

(Continued on page 4)

DORM MEN MUST USE NEW PARKING SPACE

Student Committee Will Care
For Enforcement of Rules

Beginning today Dormitory residents must park their cars in a specially prepared parking space which is north of the tennis courts in rear of Walker Memorial. A letter to this effect was delivered to each mail box in the Dorms last week.

Professor L. P. Hamilton '14, of the Dormitory Board stated that a student committee would be chosen to take care of matters pertaining to the parking space change. Students will no longer park their cars behind Walker Memorial. It is planned to sod that space in the spring in an effort to make the grounds surrounding the building more presentable, and to this end, all cars will be moved away including several in a "more or less decadent condition."

CALENDAR

Tuesday, December 15
4:00—Organic Chemistry Talk in room 5-330.
7:30—Meeting of E. E. Society, room 10-200.
8:00—Rehearsal of Tech Show Orchestra, East Lounge, Walker.
Wednesday, December 16
7:00—Mechanical Engineering Society Smoker, North Hall.
Friday, December 18
7:30—Civil Engineering Society Meeting, North Hall.

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AN INSULT

ONCE more attention must be called to the fact that the wearers of the "T" are being insulted daily. For it is nothing short of insult for underclassmen to flaunt proudly their high and prep school insignia. To do such, not only shows the lack of respect for Alma Mater, but also casts a serious reflection upon the men who are representing Technology in the various fields of endeavor. We can't all be stars in track, swimming, crew and all the other activities, and thus have an opportunity to win fame for Technology—we realize our inabilities and therefore welcome the help of those who do excel. We, of Technology, are grateful to them for their efforts and show our appreciation to them by awarding them the honor of wearing the "T"—and a coveted honor it is. Yet these men who sacrifice their time and energy to carry the colors of Technology on the field of contest must bear the humiliation of seeing others trying to place themselves in the same class by sporting secondary school insignia with the attitude of "I can win a letter, too."

This situation must come to an end immediately, or appropriate means can be taken to see that it does. Is this, another of Technology's oldest customs, to be laid on the shelf? When a man enters college, his slate is wiped clean. He is therefore expected to put away his childish things and become a man.

There are no "freshman rules" at Technology—freshmen are given credit for having a little common sense—Let this be the last time that attention will have to be called to the wearing of any insignia other than that of Technology.

MEN attending the high schools in Greater Boston and the surrounding territory have some knowledge of Technology and its courses of study, but little real appreciation of the extra-curricular advantages it offers. The tournament for high school basketball teams next term has potent possibilities for advertising that lesser known branch of undergraduate life at the Institute. The tournament will be a wonderful opportunity of correcting the impression among potential Technology men, that this school is a "factory" with all work and no play. It should also be a factor in increasing the interest of our general student body in the excellent work of our own varsity basketball team. Coach McCarty is to be congratulated for his promotion of this tournament.

DEMOCRACY IN THE PRESS

IS THE United States a democracy? After reading the news pages in some of the metropolitan newspapers, one is inclined to wonder whether there is really any such thing as equality here. If Technology holds its Junior Prom, with an attendance of several hundred and a twenty-piece orchestra, the newspapers notice it with a few inches on an inside page. If Henry Ford gives a party for five or six couples, and engages a single fiddler to play, column after column is devoted to the life story of the fiddler; his trip across the country is followed mile by mile as he goes to keep his engagement; and a two-column headline is given to the fact that Ford proposes to publish one of the waltzes composed by this fiddler in a book of old-fashioned songs.

Foreign observers have remarked that one striking thing about America is that the shop girl or stenographer is usually as well dressed as the wife of a millionaire or a notable. Yet the newspapers will devote considerable space to describing the dress Mrs. Coolidge wore, while the dress of Mary Smith is not considered worth notice.

There are other instances without number. The grandson of Rockefeller, one of several hundred men working their way through Yale, is the only one who is considered of sufficient importance to have an eight column flyer devoted to the fact. Hundreds of divorcees are continually being obtained, but only the case of a Stillman or a Rhinelander receives column upon column of notice.

The newspapers of the country, particularly those in the big cities are thus doing their best to create an illusion of "class" in our American democracy. It is not a wholesome tendency, if democracy is to endure.

THE OPEN FORUM

To the Editor:

In the first place this is one long, long, apology. We apologize to Mr. Lowell and the Musical Clubs for endeavoring to get student support for their social functions: we might have known that they (ungrateful harpists!) would tread on our toes in ungentlemanly manner for such an effort. And then we apologize for the deplorable lack of advertising and publicity from which the Clubs have suffered. When such an all-knowing fellow as our own Phosphorous is poorly informed on such matters of importance it looks as though there have been inadequate posters, advertising, and publicity in general. In fact, it rather appears as if Mr. Lowell's communication of Dec. 9th is a last minute effort to advertise the Christmas (heavens, have we got it right now?) Concert.

The Mathematics of It

In our editorial we deplored the omission of the Fall Concert, and went on to drub the undergraduates for not backing up this event in the past. Now Mr. Lowell states aggressively that "the Christmas Concert is to take the place of the Fall Concert. In fact it is to serve for both the Fall and Winter Concerts—". In other words, no concert has been omitted, only we now have one where formerly we had two. Now we never were mathematically inclined but—well, no doubt Mr. Lowell can explain everything satisfactorily. Is it not obvious, however, that Phosphorous would experience considerable difficulty in finding the exact name for the coming concert? Which brings us right back to the Clubs' deplorable publicity. We have tried to assist them—why, we even placed that "exciting" editorial on the same page with one on "The Suppression of the College Maid!" It was a very great compliment, however ungratefully received. We must congratulate the Musical Clubs on hastily putting a long front-page column in the same issue. It looks like a belated effort to forestall criticism on (pardon my repetition) their "deplorable advertising." But believing in the Gospel of forgiveness, we not only forgive Mr. Lowell's rebuke but shall place at his disposal two of our best publicity candidates. As I have said, this is one long apology.

(Signed) B. P. Lambert '26.



Public opinion is a funny thing. Last week, before the game it was, "Red Grange the wonder player." The next morning, after he had disappointed the spectators by not making six or seven touchdowns it was, "Red Grange, the iceman."

The Lounger wants to know whether Tech men get round shouldered and careworn from overwork, or because of the strain and mental worry of carrying around moustaches. Some individual with an investigating mind should catalog the various styles. For instance there is the walrus type of the gay nineties, which droops caressingly or sickly over the corners of the mouth. Type two is the conservative. It is not too large to be gaudy but large enough for a name. Type three is the toothbrush or football game with eleven on a side. This is especially popular with lounge lizards and D. C. A's. Last but not least is the moutheaten type. The poor individual with the blond or not too heavy beard generally ends up with one of these. He is the especial target for that original humorist who delights in springing, "Why you forgot to wash your lip this morning."

Since Listerine seems to be able to do everything from dictating letters to making dates, The Lounger suggests that it might be used as a hair tonic for earnest moustaches.

On Friday next THE TECH will publish a special Book Review Issue, supplanting our Book List this week. A page or more will be reviewed, a number of them being pertinent to college life. It is hoped that this extra endeavor of the Book Review Department will receive the interest and favor of those men whose tastes are not bound by technical limits. It will also be of aid in the somewhat difficult task of choosing gift books.

Undergraduate Discusses Isms and the College Man

By F. L. McGuane '27

For some unknown reason, many propounders of different kinds of theories, at some stage of their demonstration, seek to enlist the support of college students. Especially is this so in the fields of sociology, politics and the like. What there is in a college student's support is not an altogether easy thing to decide. Perhaps it is sincere confidence in the student's ability to think, to reason, to see things in their true size and shape.

Very few there are who actually take this point of view. Of course it goes without saying that this point is, nevertheless often made the ostensible excuse; but, as a matter of fact, the underlying motive is usually that of mass support. In no other class in society is it possible to call such widespread attention to matters as among students. This arises naturally from the fact that men and women, literally from the four corners of the earth, are grouped together in close personal contact, living much the same lives, and doing and enjoying much the same things.

Not Easily Influenced

Such a situation, naturally appeals to anyone with an idea to sell, as a fertile field in which to sow the seeds of the idea. They are right in supposing that it is a fertile field, but there are two very serious obstacles which nearly always interfere and kill the germ of the idea. Indeed, if it were not so, the country would soon have to be abandoned to the "Preventors of This" and the "Promoters of That" and the "Assisters of the Other Thing." It is a very strange thing—perhaps surviving from the earliest days of civilization—that no idea has yet been conceived which has not been made the object of some club, or society, or organization. This desire to organize is inborn in man, and is one of his oldest heritages.

But to come back to the point—there are two very good reasons why these crusaders, if we may call them such, usually fail in materially influencing college students. First, is that the average college student is not interested to any great extent in anything which may happen to lie outside the bounds of his particular fields of activity. In college, broadly speaking, there are two classes of students, which, together, constitute the majority: those who put studies above activities in importance, and those who put activities above studies. There are comparatively few who possess that happy medium for which educators are constantly pleading. The majority is composed of these who have but one primary objective,—be it recreational or scholastic,—to which all else is subordinated. It may be said that this is putting the matter too strongly; and cases will be cited. But remember this is speaking in terms of broad generalities, and as such represents a reasonably accurate analysis. Such men and women have little concern for the coal strikes and the world courts and all the rest.

Students Conservative

The other important reason is that students as a whole—and I might just as well take the whole world—are a pretty conservative lot. We hear people talking of Liberals and Progressive and Fundamentalists and all the like; but such descriptions apply only in certain specific ways. Essentially everyone is a conservative. This can easily be demonstrated for any day and age; but let us take, for example, one within the knowledge of the present generation. But a few short years ago the country saw its first automobile. The inventor was laughed at, and people said: "What is the sense of that contraption. Haven't we plenty

of horses?" And when the first automobile was introduced in New Hampshire, the farmers were unanimous in the opinion that it was nothing but a "fast way of going to Hell." So has it been from time immemorial—not a single innovation has ever been introduced which has not been forced to stand the buffets of public sentiments and the tests of time. Are college students an exception to this rule? Not a particle. Of course as soon as one starts talking individual cases it is a different matter. There always have been and there always will be exceptions. It happens occasionally that reputable people or organizations are sold some idea like those we have been speaking of; and often the strength gained from this cause is very material; but in the end common sense always prevails.

At various times in years past, students have been incited to back one cause or another; but there is hardly a single instance on record where success has been realized. Now and then we read of student insurrections—they seem very terrible from a distance, for such news has the faculty of growing like the rolling snowball. A mere, wild handful of students in Russia becomes a "seething, surging mob" in the United States. This then is one objection college students have to being enlisted in unorthodox causes. It ultimately brings discredit upon the students concerned. Often the inducements are very attractive. The arguments are prettily worded "to appeal for this, that, or the other thing," but they are much more appropriately paraphrased "to blackjack someone into doing something."

College students are in the incubus stage—and therefore do not claim to hold opinions of international importance. When a person goes to college it is for the purpose of learning what the world has to teach; not to teach the world his own petty thoughts. Furthermore, any movement which aims to take away the rationality from a college student's attitude must be justly condemned. College is a place to learn to study and analyze problems, and is not a megaphone for the world. Keep the "isms" out of colleges.



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COPLEY: "Three Live Ghosts."—Back again.
MAJESTIC: "Greenwich Village Follies."—Last week.
NEW PARK: "Stronger Than Love."—Nance O'Neil in a play by Nicodem.
REPERTORY: "Enter Madame."—A delicious comedy with an artistic temperament.
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ENGINEER SEXTET LOSES TO EAGLES

Sophs Capture Interclass Swimming Meet With Juniors Second

Boston College Hockey Team Defeats Institute Easily In Friday's Game

Playing against one of the heaviest and fastest teams that have ever worn the Maroon and Gold of Boston College, Technology went down to defeat in the hockey game at the Arena on Friday evening by the score of 7-1. The Boston sextet was the heaviest aggregation that local fans have seen in college hockey and towered over their opponents like giants.

Technology put a greatly improved team on the ice and passed the puck as regularly as their opponents but the outfit from University Heights were practically all veterans, and played great hockey. They always had two men on the defense and kept a stiff forward line which was where the Cambridge players fell down. There were four times in the course of the evening that the Engineers had but one defense man in his proper position. The forward line in each case was at fault for they should have covered the gap when Berkeley or Crandall went down the ice.

Groden Scores First

The game opened up with Tubber Cronin and Ed Muldowney passing down the surface. Bill Berkeley, taking the disc away from them, waited for Weisner and Randall to come up with him and then proceeded to show the fans that Technology had learned a few things about the passing game. The Eagle defense was unpenetrable and Muldowney again headed for the Engineer goal where Deke Crandall was the only defense man in position, due to failure of one of the forwards to drop back. He was enough to stop the big B. C. man though and in turn took the rubber to the other end of the pavilion where he lost it when Otto Weisner failed to keep up with him.

Red Groden, the clever Boston leader, made the first threat when he drove one waist high from quarter ice. Richards slapped it down but could not quite stop Muldowney's shot a second later for the first score. Cronin continued the barrage against the goalie until Bill and Meade paired up, carrying the disc down the ice to be stopped by the defense. Cronin took the puck and together with Groden and Muldowney passed down the ice where at quarter ice the former took a hard shot at the goal. Richards fell prone in front of the cage to prevent a score for the prettiest play of the evening. Before he could properly recover his stance though, Cronin lost one in. Exactly ten seconds later Cronin went single handed through the defense to outwit the Institute goaltender for the third score.

Engineer Passing Improves

Deke Crandall, Bill Berkeley, and Randall kept in a pretty formation and executed some fine team work, but the Eagle goalie turned aside their shots. Mahoney caged another goal a few minutes later when he shook off the opposing forwards to make a tricky drive from the boards. Then Berkeley and Randall displayed some excellent passing and finally eluded the Maroon and Gold defense where Randall caged the lone Technology goal of the game.

Near the close of the period Coach Rocque put in three substitutes but he was compelled to withdraw these when the second session had got under way, for the Engineer team had seemed to have taken on a new lease of life. They took the aggressive and

for five minutes only sensational work by the Eagle defense and goal prevented a score.

Institute Takes Offensive

The third period saw the Technology team tiring under the terrific pace of the Eagles. That redoubtable trio, Groden, Cronin and Muldowney, teamed together perfectly with the result that even Johnny Deignan could not stem the tide of shots directed at the cage. Muldowney put the first one through, and a few minutes later Groden put a hard one by the defense. Cronin slipped the last B. C. soccer through four minutes before the final whistle.

During the last few minutes of play the disc did not once come down near the Tech goal. The Cambridge outfit was on the aggressive and the opposing forwards were helpless. Randall played wonderful hockey and kept the defense in a constant state of fear. Bill Berkeley and Deke Crandall ran wild through the entire team, but Dunn, guarding the cage for Boston College, was able to knock down all possible scores.

FROSH QUINTET WINS FROM NORTHEASTERN

Engineers Outclass Opponents To Win by Score of 40-8

At the Huntington avenue Y. M. C. A. gym, last Friday, the Technology freshmen basketball team decisively defeated the Northeastern yearling aggregation to the tune of 40-8.

Playing basketball of championship calibre, the Cardinal and Gray first year men outclassed their opponents in every department of the game and emerged victorious with seventeen floor goals and six foul shots for a grand total of forty points.

During the first half, the playing of both teams was more evenly matched than the score indicates, the score at the end of the first half being 18-8. Brockelman got the jump at center and the spheroid was time and time again worked within range of the Technology basket where it was dropped in for a score.

Right from the beginning of the second period the Northeastern lads were swept off their feet by an avalanche of shots of every known variety. The superior brand of pass-work and the splendid guarding of Dame and McClintock was instrumental in holding Northeastern scoreless during the latter half. Conti, Johnson and Brockelman bore the brunt of the Technology attack throughout the encounter.

M. I. T. '29: Northeastern '29
Conti, rg, Snethurst (Hughes)
Johnson, (Faudree, Richardson), lf
Brockelman, c, Kinghorn (Gregory)
Dame, rg, Dockmejian (Morris)
McClintock, (Seron), lg

Referee: Hultgren
Timekeeper: O'Neil
Score: M. I. T. '29—40. Northeastern '29—8. Goals from floor: Conti 5, Johnson 4, Brockelman 4, McClintock 2, Dame 2, Astracitan, Kinghorn, Gregory.
Goals on free tries: Johnson 3, Richardson, Dame, Seron, Dockmejian, Gregory.

MANY TRACKSTERS REPORT FOR THIRD HANDICAP CONTEST

Jack Wiebe, In His First Meet Of The Season Takes Two Firsts

FEW FROSH ABLE TO RUN

In spite of the fact that a large part of the freshman class was not able to enter the third handicap meet on Saturday, a total of seventy three men were out for the different events. Again there was a double winner in Jack Wiebe, who came through with a first in the forty yard dash and in the broad jump.

There were enough entries in the 40-yard dash to make it necessary to run this event off in a couple of heats. It was necessary to repeat the first heat, when the five entries raced across the finish line so close together that it was impossible for the judges to pick the winner. When this event was run over, N. Earle came through with a win, closely followed by Barrington.

Kerwin Wins Long Race

The second heat of the forty was captured by Jack Wiebe, with Bertram and Dahn right at his heels. In the finals of this event, Wiebe came through to capture first place by a foot or so, with Flemming and Earle as second and third men.

Pete Kerwin ran a fine race to capture the thirteen lap event, winning by quite a few yards. Robinson was a fairly good second, with Walsh pulling in in third place. The four lap race was a fine one, with a large number of entries strung around the track. George Leness ran a fine race from scratch, but was not able to do much in passing such a crowded field on the rather narrow board track.

Ford Captures One Lap Race

Hallohan ran a fairly strong race, and with a fairly good sized handicap was able to come through with a win; Mitchell closely following him. Leness, starting from scratch, was held back for the first couple of laps, being unable to get through several groups that were running well bunched. When he got loose, his long

(Continued on page 4)

TOURNAMENT HELD FOR HIGH SCHOOLS

Coach McCarthy In Charge of Tournament To Be Held Next Spring

No longer will it be necessary to have long argument and discussions at the end of the season, as to which high school around Boston boasted of the best basketball team. Under the direction of Henry McCarthy, coach of the Engineer basketball team, a tournament will be run off on the days of March 12 and 13 in the hangar gym, in which the strongest high school teams of Greater Boston, the South and North shores will fight it out to decide the winner.

The winner of the team will represent its district in the Tufts tournament later in the month for the championship of New England. As Dr. A. W. Rowe '01 has approved of Coach McCarthy's plan on behalf of the Advisory Council on Athletics, nothing remains undone except to make final plans for the tournament.

Charms To Winners

The teams that will be allowed to enter will comprise the winners of the various schoolboy leagues of the districts and teams that while they are not a member of any league have shown suitable strength in their games during the season. A partial list of the high schools that this district covers is: Medford, Norwood, Dedham, Weymouth, Quincy, New Bedford, Fall River, Waltham, Natick and Framingham. All of the high school leagues in Greater Boston will be represented by their strongest team.

At the present time, it is planned to give to the winning team of the tournament gold basketball charms. This is beside the privilege of entering the New England championship. The runner-ups of the tournament will receive silver basketball charms. The winning team will also have undisputed title to the title of the district, which has always been a matter of dispute every year.

Sophomore Swimmers Are Winners In Class Meet By Comfortable Margin

Collecting points in every event the Sophomore natators carried away top honors in the interclass swimming meet Friday night with a total of 32 points. The Juniors were their closest competitors but could only pick up 18 points which gave them second place. Trailing far behind were the Senior pool navigators with but 9 points and the Freshmen were last with 6.

The Sophomore team was extremely well balanced as is shown by the fact that they scored in every event and turned in five first places out of a possible seven. The remaining two firsts went to the Juniors. The big upset of the meet was the taking of second place in the relay by the Senior quartet. It was expected that this race would be a two cornered affair between the Juniors and the Sophomores with the Sophomores favored to win, but the fourth year men extended themselves and completely outdistanced the Juniors who finished last. The freshman squad barely nosed out the Junior to take third place.

Weis Captures 300 Easily

In the 40 yard dash a pretty duel was waged between Ralph Johnson and Grover. Grover had a slight advantage all the way but he was never permitted to loaf by the Junior swimmer and finished the two pool lengths in 19.7 seconds. Johnson's time was 20.1 seconds and he was followed by Kelsey '28. Walworth '25 also swam.

With plenty to spare Captain Weis '27 finished the first in the 300 yard swim and was never pushed. Keay '26, his closest competitor, was nearly two lengths behind at the finish. The time was 4 min. 9 sec. "Soap" Bridges finished third, furnishing another point for the Sophomores; the other entry being Underwood '29. Captain Weis looked good in this event with a strong even stroke and he should prove a valuable man in the meets this winter. The 300 yard swim not being a standard distance it is a little hard to judge what he will do in the 440 but he appeared to be going strong at the finish of the 300.

Close Battle in Backstroke

Brown '28 showed the best form in the dives and took first place over Whitey Woods. His front jack and flying dutchman were little less than perfect and they drew favorable comment from the audience in the form of applause. Higgins '27 finished third and Keay '26 and Harding '29 followed in order. Harding looked good in some of his attempts and should prove valuable to the freshman team with a little more practice.

A real battle was witnessed by the meagre crowd in the back stroke event when Ralph Johnson '27 hooked up with Luey '29 in what was one of the closest races of the meet. Luey led for three lengths of the pool and it looked as if he would beat Johnson in his favorite event but Ralph would not have it that way and a spurt

brought him up to Luey and passed him on the last length. The times were 1 min. 24 seconds flat and 1 min. 24.1 sec. Luey is by far the premier performer on the freshman squad so far and he is due to turning some better times later on in the season.

Sophs Take Two Places in Breaststroke

Grover navigated the 100 yard swim in what is the fastest time turned in for an interclass meet. From the start there was never a doubt as to who would win and Grover finished in 58.2 seconds. Weis put up a fine battle to finish second in front of Campbell '28. At the start Weis was trailing in the rear but with a wonderful spurt he was able to overtake Kelsey and Campbell and gather three points for the Juniors.

The Sophomores obtained 8 points in the breast stroke by taking both first and second places. Puschin finished first with Paul Johnson not far behind. Tufts '29 with a strong finish nosed out Purcell '27 for third place.

With a well balanced group of swimmers entered in the relay the Sophomores finished first. The team consisted of Brown, Kelsey, Campbell, and Grover swimming in order. By taking second place the Seniors pro-

(Continued on Page 4)

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WRESTLERS HOLDING PRELIMINARY TRIALS

Qualifiers For Northeastern Meet Are Determined

Since the wrestling team has acquired a coach, elimination matches have been held to determine the men who will compete against Northeastern in the first meet on Dec. 19. More competitions will be held this week in order to allow all the Varsity prospects to give the coach a line on their ability. In the bouts held so far, some fine material has been found. The results of the bouts are as follows:

Heidtman defeated Ogden by a fall in 5 minutes, 48 seconds.

Cullen threw Swift in 3 minutes, 45 seconds.

Johnson defeated Lockhart by a fall.

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SUBMARINE STATUS IS LECTURE TOPIC

Professor Jack Delivers The Opening Popular Science Lecture

(Continued from Page 1)
teries which operate the submarine while she is running submerged, and described the development of engines to the present Diesel engine, which is a very satisfactory method of propulsion for surface navigation and in turn keeps the storage cells at full capacity for under-water power.
One of the greatest problems the submarine designer encounters is that of obtaining balance of stability, for the craft is required to progress from a safe and stable position to another stable position by passing through an unstable condition.

Germany, he said, has been given much credit for developing the submarine to a high degree of efficiency, but the truth of the matter is that British, French and American engineers did the greatest work, the results of which were used by Germany in perfecting her own under-sea fighters.

Referring to the future of the submarine, Professor Jack said in conclusion that the under-sea naval craft probably will be perfected for greater use, but that it never again will be used so savagely as in the last war. "We believe in the great motto of Leonardo da Vinci," he said, "Every wrong rights itself." After the lecture the audience visited the Pratt Museum of Ship Models and Prints.

ENGINEER TO TELL OF BOILER TROUBLES

Mr. E. S. Stack, consulting engineer will deliver an address on "Hot Water and Boiler Stories," at a smoker of the Mechanical Engineering Society to be held Wednesday evening in North Hall, Walker at 7 o'clock.

All upper classmen in Course II are invited to attend, and those who are not members of the society will be given an opportunity to join at the same time.

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PROFESSOR FRANKLIN HARTFORD SPEAKER

Parallels of Mechanics and Electricity Pointed Out

"Some Parallels Between Mechanics and Electricity" was the subject of an experimental science lecture delivered Friday by Professor W. S. Franklin of Technology, speaking before the Hartford Engineer's Club of Hartford, Connecticut.

Professor Franklin in his address explained the alternating current relations in terms of the mathematical identities which exist between the science of electricity, magnetism and mechanics. That there is a general idea in the minds of some that the relations existing between the classical theoretical branches of physics is rather vague, but from the view point of mathematics and logic, all these branches are one, he stated.

About 200 members of the club were present to hear Professor Franklin's talk.

ELECTRICALS WILL HEAR STUDENT PAPER

Second of Series to Discuss Institute Power System

Theodore Taylor, '26, will deliver a paper on "The Institute Power System," at a meeting of the Electrical Engineering Society to be held tomorrow evening in room 10-200 at 7:30 o'clock. This is the second student paper to be delivered before the society, and several more are in preparation.

The speaker will discuss the Institute power system including the central power plant, the Dynamo Lab station, and the general distribution of electricity for light and power throughout the Institute buildings. In co-operation with Professor C. E. Tucker, Taylor has prepared slides and blue prints with which to illustrate his lecture.

Members of the Society will visit the plant of the Simplex Wire and Cable Co., in Cambridge on Wednesday afternoon. It is planned to follow the construction of cables from the stranding of copper wires to the process of coating the finished cable with lead. During the next few weeks, a trip has been planned through the Boston Navy Yard to inspect the electrical equipment of a battleship.

With the interclass swimming meet past history Coach Dean will start grooming his charges for the opening intercollegiate meet.

Notices and Announcements

UNDERGRADUATE

COMBINED PROFESSIONAL SOCIETIES

Executive Committee of the Combined Professional Societies will meet at Notmans' studio, Harvard Square on Wednesday morning at 8:30 o'clock.

TECH SHOW ORCHESTRA

A rehearsal of the Tech Show Orchestra will be held tomorrow evening in the East Lounge of Walker at 8 o'clock.

FRESHMAN FOOTBALL

All members of the Freshman Football Team who borrowed equipment from Irving H. Small please return same to hockey desk in M. I. T. A. A. office in Walker.

QUESTIONNAIRE

The Technique Who's Who questionnaire must be in by Tuesday. A free copy of Technique will be given for the best questionnaire turned in.

Handicap Contest Draws Many Men To Board Track

Judges Unable to Pick Winner Of the First Heat of 40 Yard Dash

(Continued from Page 3)

even stride fairly ate up the boards. If the race had been a few yards longer, he would have probably defeated Mitchell and Halohan. As it was, he was just able to nose out Cy Meagher at the worsted. Meagher ran a fine race from the beginning, but was unable to withstand the final spurt that Leness made.

The one lap race was run in fairly good time, with H. E. Ford as the winner. Barbour was a fairly close second, while Tonry, who has been coming through in the meets, running from scratch was only able to annex a fifth place. J. Collins ran a fairly good hurdle race, taking all of the hurdles cleanly to beat out Fleming.

Four Men Tie in High Jump

On account of the cold, it was necessary to cut out a few of the field events and hold the remainder to them in the hangar. Jack Wiebe took his second first when he captured the broad jump with a fine leap of 20 feet 5 inches. Earle took second in this event with a leap of little less than 18 feet. Fleming and Keough tied for third place with jumps of 17 feet 9 inches.

The first four men in the high jump all finished a 5 feet 6 inches but Pease by virtue of his smallest handicap was awarded first place. Casselman and Malmquist were tied for second. J. Brodsky's heave of over 41 feet in the shotput gave him a first in this event, beating out his brother, who got off a heave of just less than 40 feet.

40-yd. dash—1st heat—First, Earle; second, Barrington; third, Fleming. 2nd heat—First, Wiebe; second, Berman; third, Dahl. Finals—First, Wiebe; second, Fleming; third, Earle. Time: 4 4-5 sec.
13-lap—First, Kerwin; second, Robinson; third, Walsh; fourth, Austin; fifth, Holmes. Time: 5 min. 10 4-5 sec.
4 lap—First, Halohan; second, Mitchell; third, Leness; fourth, Meagher; fifth, Smith. Time: 1 min. 15 3-5 sec.
1 lap—First, Ford; second, Barbour; third, Danner; fourth, Barrington; fifth, Tonry. Time: 17 sec.
45 yd. high hurdles—First, Collins; second, Fleming.
Broadjump—First, Wiebe; second, Earle; third, tie between Fleming and Keough; fifth, Meyer. 20 ft. 5 in.
Highjump—First, Pease; second, tie between Casselman and Malmquist; fourth, MacArthur; fifth, Farwell. 5 ft. 6 in.
Shotput—First J. Brodsky; second, S. Brodsky; third, Glen; fourth, Galeota; fifth, Wilcutt. 41 ft. 7 in.

NEWTON STUDENTS VISIT TECHNOLOGY

Machine Tool Laboratory Is Interesting to Visitors

A group of students of the DeWitt Clinton Hibberd School, a private school of Newton, Massachusetts, were shown over the Institute last Thursday by Mr. Philander H. Webster, head of the English Department of the DeWitt Clinton School and Mr. William Jackson of the Institute. The first inspected the Pratt Museum accompanied by Professors J. R. Jack and George Owen '94, of the Naval Architecture Department.

Next the students visited the Machine Tool Laboratory and were shown the multiplicity and quality of the lathes, planers, accurate measuring instruments and other equipment in this department. Of special interest was the measuring device which showed the bending of a six inch steel bar when the pressure of a finger is placed on it. The tour ended with an inspection of the Automotive Laboratory and the Wind Tunnel.

CHESS TEAM LOSES INITIAL CONTEST

Last Friday night the Technology Chess team matched skill with the Boston Chess Club in the opening contest of the season and were defeated by a score of 5 to 1. The matches were held at the Boston Chess Club rooms and R. B. Miller '27, was the lone Engineer victor.

Miller was pitted against W. W. Adams '22, the New England Chess champion, and by his victory saved the Institute team from a zero score.

Those who lost their games to the B. C. C. men were K. E. Gould '6, A. S. Heyser '26, G. W. Breck '26, Moe Brimberg '29, and H. Morris G. Arrangements are being made for a match with the United Shoe of Lynn and is expected to take place about January 5th.

SOPHOMORE SWIMMERS WIN THE CLASS MEET

(Continued from Page 3)

vided one of the biggest upsets of the meet.

Grover was high individual scorer with a total of ten points obtained by two first places. Weis and Ralph Johnson each had eight points to their credit.

The summary:

The Summary:
40 yard dash—Won by Grover '28; second, R. Johnson '27; third, Kelsey '28. Time: 19.7 sec.
300 yard swim—Won by Weis '27; second, Keay '26; third, Bridges '28. Time: 4 min. 9 sec.
Diving—Won by Brown '28; second, Woods '26; third, Higgins '27.
Back stroke—Won by R. Johnson '27; second, Luey '29; third, Bridges '28. Time: 1 min. 24 sec.
100 yard swim—Won by Grover '28; second, Weis '27; third, Campbell '28. Time 58 1-5 sec.
200 yard breaststroke—Won by Pusch '28; second, P. Johnson '28; third, Tufts '29. Time: 2 min. 57.3 sec.
Tuffs '29. Time: 1 min. 28.2 sec.
Relay—Won by 1928; second, 1926;

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